1) Given: $\angle 3 \cong \angle 5$ Name _____ Per. _____
$\angle 3 \cong \angle 7$

What can you conclude? _____ Why? _____

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2) Given: $\angle 1 \cong \angle 4$
$\angle 4 \cong \angle 8$

What can you conclude? _____Why?_____

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3) Given: $m\angle 1 + m\angle 2 = 180$
$m\angle 3 + m\angle 4 = 180$

What can you conclude? _____

Why? _____

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4) Given: $\angle 2$ and $\angle 5$ are supplementary

What can you conclude? _____

Why? _____

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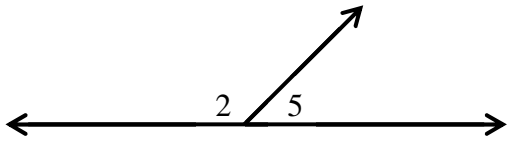
5) Given:



What can you conclude? _____

Why? _____

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6) Given: $m\angle 5 = m\angle 6$
$m\angle 9 = m\angle 2$

Therefore? $m\angle 5 + m\angle 9 = m\angle 6 + m\angle 2$

Why? _____

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7 – 8 $\overrightarrow{CD}$ bisects $\angle XCY$

7) Therefore? $m\angle XCD = m\angle DCY$

Why? _____

8) Therefore? $m\angle DCY = \frac{1}{2} m\angle XCY$

Why? _____